Release notes for ENDF/B Development g-008_O_016 evaluation

December 2, 2016

- **checkr** Warnings:

  1. A previous error halted parsing of the current section
     MAT= 825, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     279 TO     286
     ```

- **checkr** Errors:

  1. A variable is outside the allowed ENDF range
     MAT= 825, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 1, MT=451
         MOD =     1 OUT OF RANGE     0 -     0          RECORD NUMBER     279
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT= 825, MF= 3, MT= 5 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 3, MT= 5
         SECTION  3/  5 NOT IN DIRECTORY               RECORD NUMBER     325
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT= 825, MF= 3, MT= 50 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 3, MT= 50
         SECTION  3/ 50 NOT IN DIRECTORY               RECORD NUMBER     361
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT= 825, MF= 3, MT=600 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 3, MT=600
         SECTION  3/600 NOT IN DIRECTORY               RECORD NUMBER     394
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT= 825, MF= 6, MT= 5 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 6, MT= 5
         SECTION  6/  5 NOT IN DIRECTORY               RECORD NUMBER     431
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT= 825, MF= 6, MT= 50 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT= 825, MF= 6, MT= 50
         SECTION  6/ 50 NOT IN DIRECTORY               RECORD NUMBER   10892
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT= 825, MF= 6, MT=600 (0): Directory (b)

1

```
ERROR(S) FOUND IN MAT= 825, MF= 6, MT=600
    SECTION  6/600 NOT IN DIRECTORY                RECORD NUMBER   10914
```

- `fudge-4.0` Errors:

    1. Calculated and tabulated Q values disagree.
       reaction label 0: n + O15 (Error # 0): Q mismatch

       ```
       WARNING: Calculated and tabulated Q-values disagree: -19693290.03818703 eV vs -1.56638e7 eV!
       ```

    2. Calculated and tabulated Q values disagree.
       reaction label 1: H1 + N15 (Error # 0): Q mismatch

       ```
       WARNING: Calculated and tabulated Q-values disagree: -16211122.44828033 eV vs -1.21275e7 eV!
       ```

    3. Cross section domain does not match domain of linked reaction cross section sum
       crossSectionSum label 0: nonelastic (Error # 0): summedCrossSectionDomainMismatch

       ```
       WARNING: Cross section domain does not match domain of linked reaction cross section sum
       ```